

## ABSTRACT

A system for measuring quality-of-service (QoS) provided to each connection included in a stream of packets and allowing a bottleneck to be identified is disclosed. When a packet enters a network at a node or passes through a via-point node, its destination node in the network is determined based on its source and final destination addresses. Feature data identifying the inflow or passing packet is forwarded to the egress at the destination node. At the egress, it is determined whether an outflow packet captured at the egress is identical to the inflow or passing packet by feature data comparison. When they match, QoS for that packet provided by the network can be computed by detecting a difference between inflow time stamp and outflow time stamp thereof.